VerifyDate.apxc

```
public class VerifyDate {

        //method to handle potential checks against two dates
        public static Date CheckDates(Date date1, Date date2) {
                //if date2 is within the next 30 days of date1, use date2.
Otherwise use the end of the month
                if(DateWithin30Days(date1,date2)) {
                        return date2;
                } else {
                        return SetEndOfMonthDate(date1);
                }
        }

        //method to check if date2 is within the next 30 days of date1
        @TestVisible private static Boolean DateWithin30Days(Date date1, Date date2)
{
                //check for date2 being in the past
                if( date2 < date1) { return false; }

                //check that date2 is within (>=) 30 days of date1
                Date date30Days = date1.addDays(30); //create a date 30 days away
from date1
                if( date2 >= date30Days ) { return false; }
                else { return true; }
        }

        //method to return the end of the month of a given date
        @TestVisible private static Date SetEndOfMonthDate(Date date1) {
                Integer totalDays = Date.daysInMonth(date1.year(), date1.month());
                Date lastDay = Date.newInstance(date1.year(), date1.month(),
totalDays);
                return lastDay;
        }

}
```

TestVerifyDate.apxc

```
@isTest
private class TestVerifyDate {

    @isTest static void Test_Checkdates_case1(){
```

```
        Date D = VerifyDate.CheckDates(date.parse('01/01/2020'),
date.parse('01/05/2020'));
        System.assertEquals(date.parse('01/05/2020'),D);
    }

    @isTest static void Test_Checkdates_case2(){
        Date D = VerifyDate.CheckDates(date.parse('01/01/2020'),
date.parse('05/05/2020'));
        System.assertEquals(date.parse('01/31/2020'),D);
    }

    @isTest static void Test_DateWithin30Days_case1(){
        Boolean flag = VerifyDate.DateWithin30Days(date.parse('01/01/2020'),
date.parse('12/30/2019'));
        System.assertEquals(false, flag);
    }

    @isTest static void Test_DateWithin30Days_case2(){
        Boolean flag = VerifyDate.DateWithin30Days(date.parse('01/01/2020'),
date.parse('02/02/2019'));
        System.assertEquals(false, flag);
    }

    @isTest static void Test_DateWithin30Days_case3(){
        Boolean flag = VerifyDate.DateWithin30Days(date.parse('01/01/2020'),
date.parse('01/15/2020'));
        System.assertEquals(true, flag);
    }

    @isTest static void Test_SetEndofMonthDate(){
        Date returndate = VerifyDate.SetEndOfMonthDate(date.parse('01/01/2020'));
    }

}
```